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**BRUHATH BANGALORE MAHANAGARA PALIKE**

**Name of Work:** **Improvements to Concrete drain in Gatepalya Shettyhalli in ward no.12, Shettyhalli Sub Division..**

# E-MEASUREMENT BOOK

## First & Final Bill

**Name of Contractor: KRIDL B'lore**

**Estimated Cost: Rs 70.00 Lakhs**

**Office of the**
**Asst.Executive Engineer**
**Shettyhalli Sub Division**
**Bruhath Bangalore Mahanagara Palike**
**Bangalore**

# BRUHATH BANGALORE MAHANAGARA PALIKE
## DASARAHALLI ZONE

**Name of work : Improvements to Concrete drain in Gatepalya Shettyhalli in ward no.12, Shettyhalli Sub Division.**

**First and final Bill**

**Measurement Recorded in :**

| Sl. No | Description of work | No | L | B | D | Qty |
|---|---|---|---|---|---|---|
| 1 | Removing B.S. slab of Drain and stacking. | | | | | |
| | **Drain** | | | | | |
| | 2rd Cross Road (LHS) | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 14.60 | 1.50 | | 21.90 |
| | | | | | | 0.00 |
| | 4th Cross Road (RHS) | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 13.20 | 1.50 | | 19.80 |
| | 4th Cross Road (LHS) | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 9.10 | 1.50 | | 13.65 |
| | | | | | | 0.00 |
| | 5th Cross Road (RHS) | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 12.80 | 1.50 | | 19.20 |
| | 5th Cross Road (LHS) | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 2.50 | 1.50 | | 3.75 |
| | | | | | | 0.00 |
| | 6th Cross Road (RHS) | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 12.40 | 1.50 | | 18.60 |
| | 6th Cross Road (LHS) | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 12.70 | 1.50 | | 19.05 |
| | | | | | | 0.00 |
| | 7th Cross Road (RHS) | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 15.00 | 1.50 | | 22.50 |

21/10/2020

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056

21/10

| | | | | | | |
|---|---|---|---|---|---|---|
| | 7th Cross Road (LHS) | 1 | 7.90 | 1.50 | | 11.85 |
| | | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 8.80 | 1.50 | | 13.20 |
| | 6th and 7th cross connection | | | | | 0.00 |
| | | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 10.40 | 1.50 | | 15.60 |
| | 5th and 6th cross connection | | | | | 0.00 |
| | | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 11.60 | 1.50 | | 17.40 |
| | 4th and 5th cross connection | | | | | 0.00 |
| | | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 7.60 | 1.50 | | 11.40 |
| | 3rd and 4th cross connection | | | | | 0.00 |
| | | 1 | 15.00 | 1.50 | | 22.50 |
| | | 1 | 3.10 | 1.50 | | 4.65 |
| | 2nd and 3rd cross connection | | | | | 0.00 |
| | | 1 | 10.10 | 1.50 | | 15.15 |
| | | | | | **Total** | **902.70** |
| | | | | | **Considering Tendered Qty** | **473.25 Sqm** |

Assistant Engineer
Ward No.12
BBMP, Bengaluru

21/10/2020

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056

# BRUHATH BANGALORE MAHANAGARA PALIKE
## DASARAHALLI ZONE

**Name of work : Improvements to Concrete drain in Gatepalya Shettyhalli in ward no.12, Shettyhalli Sub Division.**

**First and final Bill**

**Measurement Recorded in :**

| Sl. No | Description of work | No | L | B | D | Qty |
|---|---|---|---|---|---|---|
| 2 | Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods etc., MORTH / Chapter 3 complete as per specifications and as per the direction of Engineer-in-charge of the work. | | | | | |
| | **Drain** | | | | | |
| | 2rd Cross Road (LHS) | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 14.60 | 1.00 | 0.60 | 8.76 |
| | | | | | | 0.00 |
| | 4th Cross Road (RHS) | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 13.20 | 1.00 | 0.60 | 7.92 |
| | 4th Cross Road (LHS) | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 9.10 | 1.00 | 0.60 | 5.46 |
| | | | | | | 0.00 |
| | 5th Cross Road (RHS) | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 12.80 | 1.00 | 0.60 | 7.68 |
| | 5th Cross Road (LHS) | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 2.50 | 1.00 | 0.60 | 1.50 |
| | | | | | | 0.00 |
| | 6th Cross Road (RHS) | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 12.40 | 1.00 | 0.60 | 7.44 |
| | 6th Cross Road (LHS) | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 12.70 | 1.00 | 0.60 | 7.62 |



22/10/2020

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056

22/10

| | | | | | | |
|---|---|---|---|---|---|---|
| | 7th Cross Road (RHS) | | | | | 0.00 |
| | | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | 7th Cross Road (LHS) | 1 | 7.90 | 1.00 | 0.60 | 4.74 |
| | | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 8.80 | 1.00 | 0.60 | 5.28 |
| | 6th and 7th cross connection | | | | | 0.00 |
| | | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 10.40 | 1.00 | 0.60 | 6.24 |
| | 5th and 6th cross connection | | | | | 0.00 |
| | | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 11.60 | 1.00 | 0.60 | 6.96 |
| | 4th and 5th cross connection | | | | | 0.00 |
| | | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 7.60 | 1.00 | 0.60 | 4.56 |
| | 3rd and 4th cross connection | | | | | 0.00 |
| | | 1 | 15.00 | 1.00 | 0.60 | 9.00 |
| | | 1 | 3.10 | 1.00 | 0.60 | 1.86 |
| | 2nd and 3rd cross connection | | | | | 0.00 |
| | | 1 | 10.10 | 1.00 | 0.60 | 6.06 |
| | **Culvert** | 1 | 5.00 | 1.20 | 1.00 | 6.00 |
| | | | | | **Total** | **367.08** |
| | | | | | **Considering Tendered Qty** | **360.45** |
| | | | | | | **cum** |

Assistant Engineer
Ward No.12
BBMP, Bengaluru

22/10/2020

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056

# BRUHATH BANGALORE MAHANAGARA PALIKE
## DASARAHALLI ZONE

**Name of work : Improvements to Concrete drain in Gatepalya Shettyhalli in ward no.12, Shettyhalli Sub Division.**

**First and final Bill**

**Measurement Recorded in :**

| Sl. No | Description of work | No | L | B | D | Qty |
|---|---|---|---|---|---|---|
| 3 | Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. | | | | | |
| | **Drain** | | | | | |
| | 2rd Cross Road (LHS) | 1 | 15.00 | 1.00 | 0.15 | 2.25 |
| | | 1 | 15.00 | 1.00 | 0.15 | 2.25 |
| | | 1 | 15.00 | 1.00 | 0.15 | 2.25 |
| | | 1 | 14.60 | 1.00 | 0.15 | 2.19 |
| | | | | | | 0.00 |
| | 4th Cross Road (RHS) | 1 | 15.00 | 1.00 | 0.15 | 2.25 |
| | | 1 | 15.00 | 1.00 | 0.15 | 2.25 |
| | | 1 | 15.00 | 1.00 | 0.15 | 2.25 |
| | | 1 | 15.00 | 1.00 | 0.15 | 2.25 |
| | | 1 | 13.20 | 1.00 | 0.15 | 1.98 |
| | 4th Cross Road (LHS) | 1 | 15.00 | 1.00 | 0.15 | 2.25 |
| | | 1 | 15.00 | 1.00 | 0.15 | 2.25 |
| | | 1 | 15.00 | 1.00 | 0.15 | 2.25 |
| | | 1 | 15.00 | 1.00 | 0.15 | 2.25 |
| | | 1 | 15.00 | 1.00 | 0.15 | 2.25 |
| | | 1 | 9.10 | 1.00 | 0.15 | 1.37 |
| | | | | | | 0.00 |
| | 5th Cross Road (RHS) | 1 | 15.00 | 1.00 | 0.15 | 2.25 |
| | | 1 | 15.00 | 1.00 | 0.15 | 2.25 |
| | | 1 | 15.00 | 1.00 | 0.15 | 2.25 |
| | | 1 | 12.80 | 1.00 | 0.15 | 1.92 |
| | 5th Cross Road (LHS) | 1 | 15.00 | 1.00 | 0.15 | 2.25 |
| | | 1 | 15.00 | 1.00 | 0.15 | 2.25 |
| | | 1 | 15.00 | 1.00 | 0.15 | 2.25 |
| | | 1 | 15.00 | 1.00 | 0.15 | 2.25 |
| | | 1 | 2.50 | 1.00 | 0.15 | 0.38 |
| | | | | | | 0.00 |
| | 6th Cross Road (RHS) | 1 | 15.00 | 1.00 | 0.15 | 2.25 |
| | | 1 | 15.00 | 1.00 | 0.15 | 2.25 |
| | | 1 | 12.40 | 1.00 | 0.15 | 1.86 |
| | 6th Cross Road (LHS) | 1 | 15.00 | 1.00 | 0.15 | 2.25 |
| | | 1 | 15.00 | 1.00 | 0.15 | 2.25 |

23/10/2020

23/10

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 1 | 12.70 | 1.00 | 0.15 | 1.91 |
| | | | | | | 0.00 |
| | 7th Cross Road (RHS) | 1 | 15.00 | 1.00 | 0.15 | 2.25 |
| | | 1 | 15.00 | 1.00 | 0.15 | 2.25 |
| | | 1 | 7.90 | 1.00 | 0.15 | 1.19 |
| | 7th Cross Road (LHS) | 1 | 15.00 | 1.00 | 0.15 | 2.25 |
| | | 1 | 15.00 | 1.00 | 0.15 | 2.25 |
| | | 1 | 8.80 | 1.00 | 0.15 | 1.32 |
| | | | | | | 0.00 |
| | 6th and 7th cross connection | 1 | 15.00 | 1.00 | 0.20 | 3.00 |
| | | 1 | 10.40 | 1.00 | 0.20 | 2.08 |
| | | | | | | 0.00 |
| | 5th and 6th cross connection | 1 | 15.00 | 1.00 | 0.20 | 3.00 |
| | | 1 | 11.60 | 1.00 | 0.20 | 2.32 |
| | | | | | | 0.00 |
| | 4th and 5th cross connection | 1 | 15.00 | 1.00 | 0.20 | 3.00 |
| | | 1 | 7.60 | 1.00 | 0.20 | 1.52 |
| | | | | | | 0.00 |
| | 3rd and 4th cross connection | 1 | 15.00 | 1.00 | 0.20 | 3.00 |
| | | 1 | 3.10 | 1.00 | 0.15 | 0.47 |
| | | | | | | 0.00 |
| | 2nd and 3rd cross connection | 1 | 10.10 | 1.00 | 0.15 | 1.52 |
| | **Culvert** | 1 | 5.00 | 1.20 | 0.20 | 1.20 |
| | | | | | **Total** | **95.95** |
| | | | | | **Considering Tendered Qty** | **95.73** |
| | | | | | | **Cum** |

Assistant Engineer 23/10/2020
Ward No.12
BBMP, Bengaluru

Assistant Executive Engineer 23/10
Shettyhalli Sub Divison
BBMP, Bengaluru

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056

# BRUHATH BANGALORE MAHANAGARA PALIKE
# DASARAHALLI ZONE

**Name of work : Improvements to Concrete drain in Gatepalya Shettyhalli in ward no.12, Shettyhalli Sub Division.**

**First and final Bill**

**Measurement Recorded in :**

| Sl. No | Description of work | No | L | B | D | Qty |
|---|---|---|---|---|---|---|
| 4 | KSRRB M2200-5.12. Providing and laying Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.7 cum and fine aggregates @ 0.47 cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008. i) Upto 5 m height. | | | | | |
| | **Drain raft** | | | | | |
| | 2nd Cross Road (LHS) | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | | 1 | 14.60 | 0.90 | 0.15 | 1.97 |
| | **Drain wall** | | | | | |
| | 2nd Cross Road (LHS) | 2 | 15.00 | 0.15 | 0.60 | 2.70 |
| | | 2 | 15.00 | 0.15 | 0.60 | 2.70 |
| | | 2 | 15.00 | 0.15 | 0.60 | 2.70 |
| | | 2 | 14.60 | 0.15 | 0.60 | 2.63 |
| | **Drain raft** | | | | | |
| | 4th Cross Road (RHS) | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | | 1 | 13.20 | 0.90 | 0.15 | 1.78 |
| | 4th Cross Road (LHS) | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | | 1 | 9.10 | 0.90 | 0.15 | 1.23 |
| | **Drain wall** | | | | | |
| | 4th Cross Road (RHS) | 2 | 15.00 | 0.15 | 0.75 | 3.38 |
| | | 2 | 15.00 | 0.15 | 0.60 | 2.70 |
| | | 2 | 15.00 | 0.15 | 0.60 | 2.70 |
| | | 2 | 15.00 | 0.15 | 0.60 | 2.70 |
| | | 2 | 13.20 | 0.15 | 0.60 | 2.38 |
| | 4th Cross Road (LHS) | 2 | 15.00 | 0.15 | 0.75 | 3.38 |
| | | 2 | 15.00 | 0.15 | 0.60 | 2.70 |
| | | 2 | 15.00 | 0.15 | 0.60 | 2.70 |
| | | 2 | 15.00 | 0.15 | 0.60 | 2.70 |
| | | 2 | 15.00 | 0.15 | 0.75 | 3.38 |

04/11/2020

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056

4/11

| | | | | | |
|---|---|---|---|---|---|
| **Drain raft** | 2 | 9.10 | 0.15 | 0.60 | 1.64 |
| 5th Cross Road (RHS) | | | | | |
| | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| 5th Cross Road (LHS) | 1 | 12.80 | 0.90 | 0.15 | 1.73 |
| | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | 1 | 2.50 | 0.90 | 0.15 | 0.34 |
| **Drain wall** | | | | | |
| 5th Cross Road (RHS) | 2 | 15.00 | 0.15 | 0.75 | 3.38 |
| | 2 | 15.00 | 0.15 | 0.75 | 3.38 |
| | 2 | 15.00 | 0.15 | 0.60 | 2.70 |
| | 2 | 12.80 | 0.15 | 0.60 | 2.30 |
| 5th Cross Road (LHS) | 2 | 15.00 | 0.15 | 0.60 | 2.70 |
| | 2 | 15.00 | 0.15 | 0.75 | 3.38 |
| | 2 | 15.00 | 0.15 | 0.75 | 3.38 |
| | 2 | 15.00 | 0.15 | 0.60 | 2.70 |
| | 2 | 2.50 | 0.15 | 0.60 | 0.45 |
| **Drain raft** | | | | | |
| 6th Cross Road (RHS) | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | 1 | 12.40 | 0.90 | 0.15 | 1.67 |
| 6th Cross Road (LHS) | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | 1 | 12.70 | 0.90 | 0.15 | 1.71 |
| **Drain wall** | | | | | |
| 6th Cross Road (RHS) | 2 | 15.00 | 0.15 | 0.75 | 3.38 |
| | 2 | 15.00 | 0.15 | 0.75 | 3.38 |
| | 2 | 12.40 | 0.15 | 0.60 | 2.23 |
| 6th Cross Road (LHS) | 2 | 15.00 | 0.15 | 0.70 | 3.15 |
| | 2 | 15.00 | 0.15 | 0.65 | 2.93 |
| | 2 | 12.70 | 0.15 | 0.60 | 2.29 |
| **Drain raft** | | | | | |
| 7th Cross Road (RHS) | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | 1 | 7.90 | 0.90 | 0.15 | 1.07 |
| 7th Cross Road (LHS) | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | 1 | 8.80 | 0.90 | 0.15 | 1.19 |
| **Drain wall** | | | | | |
| 7th Cross Road (RHS) | 2 | 15.00 | 0.15 | 0.75 | 3.38 |
| | 2 | 15.00 | 0.15 | 0.60 | 2.70 |
| | 2 | 7.90 | 0.15 | 0.60 | 1.42 |
| 7th Cross Road (LHS) | 2 | 15.00 | 0.15 | 0.65 | 2.93 |

04/11/2020

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division

4/11

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 2 | 15.00 | 0.15 | 0.70 | 3.15 |
| | | 2 | 8.80 | 0.15 | 0.75 | 1.98 |
| | **Drain raft** | | | | | |
| | 6th and 7th cross connection | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | | 1 | 10.40 | 0.90 | 0.15 | 1.40 |
| | **Drain wall** | | | | | 0.00 |
| | 6th and 7th cross connection | 2 | 15.00 | 0.15 | 0.60 | 2.70 |
| | | 2 | 10.40 | 0.15 | 0.60 | 1.87 |
| | **Drain raft** | | | | | |
| | 5th and 6th cross connection | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | | 1 | 11.60 | 0.90 | 0.15 | 1.57 |
| | **Drain wall** | | | | | |
| | 5th and 6th cross connection | 2 | 15.00 | 0.15 | 0.60 | 2.70 |
| | | 2 | 11.60 | 0.15 | 0.60 | 2.09 |
| | **Drain raft** | | | | | 0.00 |
| | 4th and 5th cross connection | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | | 1 | 7.60 | 0.90 | 0.15 | 1.03 |
| | **Drain wall** | | | | | |
| | 4th and 5th cross connection | 2 | 15.00 | 0.15 | 0.60 | 2.70 |
| | | 2 | 7.60 | 0.15 | 0.60 | 1.37 |
| | **Drain raft** | | | | | 0.00 |
| | 3rd and 4th cross connection | 1 | 15.00 | 0.90 | 0.15 | 2.03 |
| | | 1 | 3.10 | 0.90 | 0.15 | 0.42 |
| | **Drain wall** | | | | | |
| | 3rd and 4th cross connection | 2 | 15.00 | 0.15 | 0.60 | 2.70 |
| | | 2 | 3.10 | 0.15 | 0.60 | 0.56 |
| | **Drain raft** | | | | | 0.00 |
| | 2nd and 3rd cross connection | 1 | 10.10 | 0.90 | 0.15 | 1.36 |
| | **Drain wall** | | | | | |
| | 2nd and 3rd cross connection | 2 | 10.10 | 0.15 | 0.60 | 1.82 |
| | **Culvert raft** | 1 | 5.00 | 1.10 | 0.20 | 1.10 |
| | **Culvert wall** | 2 | 5.00 | 0.25 | 0.60 | 1.50 |
| | | | | | **Total** | **200.16** |
| | | | | | | **cum** |

Assistant Engineer
Ward No.12
BBMP, Bengaluru
04/11/2020

Assistant Executive Engineer 4/11
Shettyhalli Sub Divison
BBMP, Bengaluru

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056

# BRUHATH BANGALORE MAHANAGARA PALIKE
# DASARAHALLI ZONE

**Name of work : Improvements to Concrete drain in Gatepalya Shettyhalli in ward no.12, Shettyhalli Sub Division.**

**First and final Bill**

**Measurement Recorded in :**

| Sl. No | Description of work | No | L | B | D | Qty |
|---|---|---|---|---|---|---|
| 5 | Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. | | | | | |
| | **2nd cross road (LHS)** | | | | 0.94 | **0.94** |
| | **4th cross road** | | | | 2.49 | **2.49** |
| | **4th cross road (culvert)** | | | | 0.15 | **0.15** |
| | **5th cross road** | | | | 1.91 | **1.91** |
| | **6th cross road** | | | | 1.24 | **1.24** |
| | **7th cross road** | | | | 1.12 | **1.12** |
| | **In between 2nd and 3rd cross** | | | | 0.14 | **0.14** |
| | **In between 3rd and 4th cross** | | | | 0.24 | **0.24** |
| | **In between 4th and 5th cross road** | | | | 0.30 | **0.30** |
| | **In between 5th and 6th cross** | | | | 0.36 | **0.36** |
| | **In between 6th and 7th cross road** | | | | 0.34 | **0.34** |
| | | | | | **Total** | **9.23** |
| | Reinforcement details are Enclosed | | | | | **MT** |

Assistant Engineer
Ward No.12
BBMP, Bengaluru
02/11/2020

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru
2/11

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056

# BRUHAT BANGALORE MAHANAGARA PALIKE

SHETTYHALLI SUB DIVISION, DASARAHALLI

Name Of Work: Improvements to Concrete drain in Gatepalya Shettyhalli in ward no.12, Shettyhalli Sub Division.

Item No : 5

## MEASUREMENT SHEET

Item Name : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and I or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specification No. KBS 4.6.3

### Steel Calculation

| SL NO | CHAINAGE FROM | CHAINAGE TO | SIDE | BAR | No | BAR DIA (mm) | SPACING (mm) | TOTAL SPACING (mm) | No. OF BARS ON EACH FACE | LENGTH OF EACH BAR (mm) | SHAPE OF BARS (ALL DIMENSIONS ARE IN mm) (NOT TO SCALE) | TOTAL WT (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Name of the Road: 2nd cross road (LHS)** | | | | | | | | | | | | |
| 1 | 0.0 | 59.6 | LHS L=59.6 | Main (Outer) | 1 | 10 | 150 | 59600.0 | 398 | 2200.0 | 650 / 650 / 900 | 539.738 |
| | | | | Dist. (Outer) | 1 | 10 | 150 | 2200.0 | 11 | 59600.0 | 59600.0 | 404.126 |
| | | | | | | | | | | | **Total in Kgs** | **943.86** |
| | | | | | | | | | | | **Total in Tonne** | **0.94** |

02/11/2020

2/11

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 0[illegible]

# BRUHAT BANGALORE MAHANAGARA PALIKE

**SHETTYHALLI SUB DIVISION, DASARAHALLI**

**Name Of Work: Improvements to Concrete drain in Gatepalya Shettyhalli in ward no.12, Shettyhalli Sub Division.**

**MEASUREMENT SHEET**

**Item No :** 5

**Item Name :** **Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and I or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specification No. KBS 4.6.3**

**Steel Calculation**

| SL NO | CHAINAGE FROM | CHAINAGE TO | SIDE | BAR | No | BAR DIA (mm) | SPACING (mm) | TOTAL SPACING (mm) | No. OF BARS ON EACH FACE | LENGTH OF EACH BAR (mm) | SHAPE OF BARS (ALL DIMENSIONS ARE IN mm) (NOT TO SCALE) | TOTAL WT (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Name of the Road: 4th cross road** | | | | | | | | | | | | |
| 1 | 0.0 | 73.2 | RHS L=73.20 | Main (Outer) | 1 | 10 | 150 | 73200.0 | 488 | 2200.0 | 650, 650, 900 | 661.790 |
| | | | | Dist. (Outer) | 1 | 10 | 150 | 2200.0 | 11 | 73200.0 | 73200.0 | 496.342 |
| 2 | 0.0 | 84.1 | LHS L=84.1 | Main (Outer) | 1 | 10 | 150 | 84100.0 | 562 | 2200.0 | 650, 650, 900 | 762.143 |
| | | | | Dist. (Outer) | 1 | 10 | 150 | 2200.0 | 11 | 84100.0 | 84100.0 | 570.251 |
| | | | | | | | | | | | **Total in Kgs** | **2490.53** |
| | | | | | | | | | | | **Total in Tonne** | **2.49** |

02/4/2020

2/11

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056

# BRUHAT BANGALORE MAHANAGARA PALIKE

## SHETTYHALLI SUB DIVISION, DASARAHALLI

**Name Of Work: Improvements to Concrete drain in Gatepalya Shettyhalli in ward no.12, Shettyhalli Sub Division.**

### MEASUREMENT SHEET

**Item No :** 5

**Item Name :** **Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and I or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specification No. KBS 4.6.3**

**Steel Calculation**

| SL NO | CHAINAGE FROM | CHAINAGE TO | SIDE | BAR | No | BAR DIA (mm) | SPACING (mm) | TOTAL SPACING (mm) | No. OF BARS ON EACH FACE | LENGTH OF EACH BAR (mm) | SHAPE OF BARS (ALL DIMENSIONS ARE IN mm) (NOT TO SCALE) | TOTAL WT (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Name of the Road: 4th cross road (culvert)** | | | | | | | | | | | | |
| 1 | 0.0 | 5.4 | culvert | Main (Outer) | 1 | 10 | 150 | 5400.0 | 36 | 2700.0 | 850, 850, 1000 | 59.916 |
| | | | | Main (Inner) | 1 | 10 | 150 | 5400.0 | 27 | 2200.0 | 750, 750, 700 | 36.615 |
| | | | | Dist. (Outer) | 1 | 8 | 150 | 2700.0 | 12 | 5400.0 | 5400.0 | 25.564 |
| | | | | Dist. (Inner) | 1 | 8 | 150 | 2700.0 | 12 | 5400.0 | 5400.0 | 25.564 |
| | | | | | | | | | | | **Total in Kgs** | **147.66** |
| | | | | | | | | | | | **Total in Tonne** | **0.15** |

02/11/2020

2/11

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056

# BRUHAT BANGALORE MAHANAGARA PALIKE

SHETTYHALLI SUB DIVISION, DASARAHALLI

Name Of Work: Improvements to Concrete drain in Gatepalya Shettyhalli in ward no.12, Shettyhalli Sub Division.

## MEASUREMENT SHEET

Item No : 5

Item Name : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and I or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specification No. KBS 4.6.3

### Steel Calculation

| SL NO | CHAINAGE FROM | CHAINAGE TO | SIDE | BAR | No | BAR DIA (mm) | SPACING (mm) | TOTAL SPACING (mm) | No. OF BARS ON EACH FACE | LENGTH OF EACH BAR (mm) | SHAPE OF BARS (ALL DIMENSIONS ARE IN mm) (NOT TO SCALE) | TOTAL WT (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Name of the Road: 5th cross road** | | | | | | | | | | | | |
| 1 | 0.0 | 57.8 | RHS L=57.80 | Main (Outer) | 1 | 10 | 150 | 57800.0 | 386 | 2200.0 | 650, 650, 900 | 523.465 |
| | | | | Dist. (Outer) | 1 | 10 | 150 | 2200.0 | 11 | 57800.0 | 57800.0 | 391.921 |
| 2 | 0.0 | 62.5 | LHS L=62.5 | Main (Outer) | 1 | 10 | 150 | 62500.0 | 418 | 2200.0 | 650, 650, 900 | 566.861 |
| | | | | Dist. (Outer) | 1 | 10 | 150 | 2200.0 | 11 | 62500.0 | 62500.0 | 423.790 |
| | | | | | | | | | | | **Total in Kgs** | **1906.04** |
| | | | | | | | | | | | **Total in Tonne** | **1.91** |

02/11/2020

2/11

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056

# BRUHAT BANGALORE MAHANAGARA PALIKE

## SHETTYHALLI SUB DIVISION, DASARAHALLI

**Name Of Work: Improvements to Concrete drain in Gatepalya Shettyhalli in ward no.12, Shettyhalli Sub Division.**

## MEASUREMENT SHEET

**Item No :** 5

**Item Name :** Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and I or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specification No. KBS 4.6.3

### Steel Calculation

| SL NO | CHAINAGE FROM | CHAINAGE TO | SIDE | BAR | No | BAR DIA (mm) | SPACING (mm) | TOTAL SPACING (mm) | No. OF BARS ON EACH FACE | LENGTH OF EACH BAR (mm) | SHAPE OF BARS (ALL DIMENSIONS ARE IN mm) (NOT TO SCALE) | TOTAL WT (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Name of the Road: 6th cross road** | | | | | | | | | | | | |
| 1 | 0.0 | 42.4 | RHS L=42.40 | Main (Outer) | 1 | 10 | 150 | 42400.0 | 283 | 2200.0 | 650, 650, 900 | 383.784 |
| | | | | Dist. (Outer) | 1 | 10 | 150 | 2200.0 | 11 | 42400.0 | 42400.0 | 287.499 |
| 2 | 0.0 | 42.7 | LHS L=62.5 | Main (Outer) | 1 | 10 | 150 | 42700.0 | 286 | 2200.0 | 650, 650, 900 | 387.852 |
| | | | | Dist. (Outer) | 1 | 8 | 150 | 2200.0 | 11 | 42700.0 | 42700.0 | 185.301 |
| | | | | | | | | | | | **Total in Kgs** | **1244.44** |
| | | | | | | | | | | | **Total in Tonne** | **1.24** |

02/11/2020

2/11

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056

# BRUHATH BANGALORE MAHANAGARA PALIKE
# DASARAHALLI ZONE

**ame of work : Improvements to Concrete drain in Gatepalya Shettyhalli in ward no.12, Shettyhalli Sub Division.**

**First and final Bill**

**urement Recorded in :**

| Description of work | No | L | B | D | Qty |
|---|---|---|---|---|---|
| Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortor including form work, lift charges , curing and concrtee finished surface on both sides etc, and complete as per the directions of Enginner in | | | | | |
| **Drain** | | | | | |
| 2rd Cross Road (LHS) | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 14.60 | 0.90 | | 13.14 |
| 4th Cross Road (RHS) | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 13.20 | 0.90 | | 11.88 |
| 4th Cross Road (LHS) | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 9.10 | 0.90 | | 8.19 |
| 5th Cross Road (RHS) | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 12.80 | 0.90 | | 11.52 |
| 5th Cross Road (LHS) | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 2.50 | 0.90 | | 2.25 |
| 6th Cross Road (RHS) | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 12.40 | 0.90 | | 11.16 |
| 6th Cross Road (LHS) | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 12.70 | 0.90 | | 11.43 |
| 7th Cross Road (RHS) | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 7.90 | 0.90 | | 7.11 |

E.E. (D.D.)



18/11/2020

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 057

18/11

| | | | | | |
|---|---|---|---|---|---|
| 7th Cross Road (LHS) | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 8.80 | 0.90 | | 7.92 |
| 6th and 7th cross connection | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 10.40 | 0.90 | | 9.36 |
| 5th and 6th cross connection | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 11.60 | 0.90 | | 10.44 |
| 4th and 5th cross connection | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 7.60 | 0.90 | | 6.84 |
| 3rd and 4th cross connection | 1 | 15.00 | 0.90 | | 13.50 |
| | 1 | 3.10 | 0.90 | | 2.79 |
| 2nd and 3rd cross connection | 1 | 10.10 | 0.90 | | 9.09 |
| Railyway track side | 1 | 30.00 | 0.90 | | 27.00 |
| | | | | **Total** | **568.62** |
| | | | | **Limited to Tendered Qty** | **567.90** |
| | | | | | **Sqm** |

Assistant Engineer
Ward No.12
BBMP, Bengaluru
18/4/2020

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru
18/4
18/11

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056

# BRUHATH BANGALORE MAHANAGARA PALIKE
# DASARAHALLI ZONE

**Name of work : Improvements to Concrete drain in Gatepalya Shettyhalli in ward no.12, Shettyhalli Sub Division.**

**First and final Bill**

**Measurement Recorded in :**

| | Description of work | No | L | B | D | Qty |
|---|---|---|---|---|---|---|
| | Providing and fixing Precast RCC slab of 250mm thick for Culverts made of Plain/Reinforced Cement Concrete design mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum andfine aggregates @ 0.47cum, with superplasticizer @3lts confirming to 189103-1999 Reaffirmed-2008,0pen Foundation complete as per Drawing and Technical Specification including cost of all 10 materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications and pointing for joints 1:3 cement mortar including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per the directions of Engineer in-Charge. | | | | | |
| | **For Culvert Slabs( Deck)** | 1 | 5.00 | 1.00 | | 5.00 |
| | | | | | **Total** | **5.00** |
| | | | | | | **Sqm** |

18/11/2020

Assistant Engineer
Ward No.12
BBMP, Bengaluru

18/11

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 057

# BRUHATH BANGALORE MAHANAGARA PALIKE
# DASARAHALLI ZONE

**Name of work : Improvements to Concrete drain in Gatepalya Shettyhalli in ward no.12, Shettyhalli Sub Division.**

**First and final Bill**

**Measurement Recorded in :**

| Description of work | No | L | B | D | Qty |
|---|---|---|---|---|---|
| Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of 11 dismantled materials stacking serviceable and unserviceable materials separately complete as per specifications. | | | | | |
| **CC Pavement Dismantling (Damaged due to bwssb Watersuply works)** | | | | | |
| 3rd Cross Road | 1 | 15.00 | 4.05 | 0.10 | 6.08 |
| | 1 | 15.00 | 4.15 | 0.10 | 6.23 |
| | 1 | 15.00 | 4.25 | 0.10 | 6.38 |
| | 1 | 15.00 | 4.40 | 0.10 | 6.60 |
| | 1 | 15.00 | 4.40 | 0.10 | 6.60 |
| | 1 | 15.00 | 4.20 | 0.10 | 6.30 |
| | 1 | 1.50 | 4.00 | 0.10 | 0.60 |
| 4th Cross Road | 1 | 15.00 | 3.80 | 0.10 | 5.70 |
| | 1 | 15.00 | 3.80 | 0.10 | 5.70 |
| | 1 | 15.00 | 4.05 | 0.10 | 6.08 |
| | 1 | 15.00 | 4.25 | 0.10 | 6.38 |
| | 1 | 15.00 | 4.60 | 0.10 | 6.90 |
| | 1 | 10.00 | 4.80 | 0.10 | 4.80 |
| 5th Cross Road | 1 | 15.00 | 6.10 | 0.10 | 9.15 |
| | 1 | 15.00 | 6.95 | 0.10 | 10.43 |
| | 1 | 15.00 | 5.80 | 0.10 | 8.70 |
| | 1 | 15.00 | 6.05 | 0.10 | 9.08 |
| 6th Cross Road | 1 | 15.00 | 5.80 | 0.10 | 8.70 |
| | 1 | 15.00 | 6.15 | 0.10 | 9.23 |
| | 1 | 12.00 | 6.20 | 0.10 | 7.44 |
| 7th Cross Road | 1 | 15.00 | 5.95 | 0.10 | 8.93 |
| | 1 | 15.00 | 6.10 | 0.10 | 9.15 |
| | 1 | 10.00 | 6.45 | 0.10 | 6.45 |
| | | | | **Total** | **161.57** |
| | | | | **Limited to Tendered Qty** | **101.23** |
| | | | | | **Cum** |

Assistant Engineer
Ward No.12
BBMP, Bengaluru
19/11/2020

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru
19/11

# BRUHATH BANGALORE MAHANAGARA PALIKE
# DASARAHALLI ZONE

**Name of work : Improvements to Concrete drain in Gatepalya Shettyhalli in ward no.12, Shettyhalli Sub Division.**

**First and final Bill**

**asurement Recorded in :**

| Description of work | No | L | B | D | Qty |
|---|---|---|---|---|---|
| Scarifying kankar / gravel / metal crust by mechanical means upto 150mm thick, disposal of 12 stuff including cost of all labour charges, HOM complete as per specifications. | | | | | |
| 3rd Cross Road | 1 | 15.00 | 4.05 | | 60.75 |
| | 1 | 15.00 | 4.15 | | 62.25 |
| | 1 | 15.00 | 4.25 | | 63.75 |
| | 1 | 15.00 | 4.40 | | 66.00 |
| | 1 | 15.00 | 4.40 | | 66.00 |
| | 1 | 15.00 | 4.20 | | 63.00 |
| | 1 | 1.50 | 4.00 | | 6.00 |
| 4th Cross Road | 1 | 15.00 | 3.80 | | 57.00 |
| | 1 | 15.00 | 3.80 | | 57.00 |
| | 1 | 15.00 | 4.05 | | 60.75 |
| | 1 | 15.00 | 4.25 | | 63.75 |
| | 1 | 15.00 | 4.60 | | 69.00 |
| | 1 | 10.00 | 4.80 | | 48.00 |
| 5th Cross Road | 1 | 15.00 | 6.10 | | 91.50 |
| | 1 | 15.00 | 6.95 | | 104.25 |
| | 1 | 15.00 | 5.80 | | 87.00 |
| | 1 | 15.00 | 6.05 | | 90.75 |
| 6th Cross Road | 1 | 15.00 | 5.80 | | 87.00 |
| | 1 | 15.00 | 6.15 | | 92.25 |
| | 1 | 12.00 | 6.20 | | 74.40 |
| 7th Cross Road | 1 | 15.00 | 5.95 | | 89.25 |
| | 1 | 15.00 | 6.10 | | 91.50 |
| | 1 | 10.00 | 6.45 | | 64.50 |
| | | | | **Total** | **1615.65** |
| | | | | **Limited to Tendered Qty** | **1441.90** |
| | | | | | **Sqm** |

Assistant Engineer
Ward No.12
BBMP, Bengaluru
20/11/2020

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru
20/11

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 057

# BRUHATH BANGALORE MAHANAGARA PALIKE
## DASARAHALLI ZONE

**me of work : Improvements to Concrete drain in Gatepalya Shettyhalli in ward no.12, Shettyhalli Sub Division.**

**asurement Recorded in : First and final Bill**

| | Description of work | No | L | B | D | Qty |
|---|---|---|---|---|---|---|
| | Compaction of original ground by mechanical means including filling in depression occuring 13 during rolling including cost of all labour, HOM complete as per specifications | | | | | |
| | 3rd Cross Road | 1 | 15.00 | 4.05 | | 60.75 |
| | | 1 | 15.00 | 4.15 | | 62.25 |
| | | 1 | 15.00 | 4.25 | | 63.75 |
| | | 1 | 15.00 | 4.40 | | 66.00 |
| | | 1 | 15.00 | 4.40 | | 66.00 |
| | | 1 | 15.00 | 4.20 | | 63.00 |
| | | 1 | 1.50 | 4.00 | | 6.00 |
| | 4th Cross Road | 1 | 15.00 | 3.80 | | 57.00 |
| | | 1 | 15.00 | 3.80 | | 57.00 |
| | | 1 | 15.00 | 4.05 | | 60.75 |
| | | 1 | 15.00 | 4.25 | | 63.75 |
| | | 1 | 15.00 | 4.60 | | 69.00 |
| | | 1 | 10.00 | 4.80 | | 48.00 |
| | 5th Cross Road | 1 | 15.00 | 6.10 | | 91.50 |
| | | 1 | 15.00 | 6.95 | | 104.25 |
| | | 1 | 15.00 | 5.80 | | 87.00 |
| | | 1 | 15.00 | 6.05 | | 90.75 |
| | 6th Cross Road | 1 | 15.00 | 5.80 | | 87.00 |
| | | 1 | 15.00 | 6.15 | | 92.25 |
| | | 1 | 12.00 | 6.20 | | 74.40 |
| | 7th Cross Road | 1 | 15.00 | 5.95 | | 89.25 |
| | | 1 | 15.00 | 6.10 | | 91.50 |
| | | 1 | 10.00 | 6.45 | | 64.50 |
| | | | | | **Total** | **1615.65** |
| | | | | | **Limited to Tendered Qty** | **1589.4** |
| | | | | | | **Sqm** |

Assistant Engineer
Ward No.12
BBMP, Bengaluru
23/11/2020

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru
23/11

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056

# BRUHATH BANGALORE MAHANAGARA PALIKE
# DASARAHALLI ZONE

**Name of work : Improvements to Concrete drain in Gatepalya Shettyhalli in ward no.12, Shettyhalli Sub Division.**

**First and final Bill**

**Measurement Recorded in :**

| | Description of work | No | L | B | D | Qty |
|---|---|---|---|---|---|---|
| 12 | CONCRETE PAVEMENT KSRRB M600- Cement Concrete Pavements KSRRB M600-1.Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15 15:1, Aggregate gradation after blending to be as per Table 600-1 ,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a hatching plant, transported to site,laid with a paver, compacting with 8-10 tonnes | | | | | |
| | **DLC for CC Road** | | | | | |
| | 3rd Cross Road | 1 | 15.00 | 4.05 | 0.15 | 9.11 |
| | | 1 | 15.00 | 4.15 | 0.15 | 9.34 |
| | | 1 | 15.00 | 4.25 | 0.15 | 9.56 |
| | | 1 | 15.00 | 4.40 | 0.15 | 9.90 |
| | | 1 | 15.00 | 4.40 | 0.15 | 9.90 |
| | | 1 | 15.00 | 4.20 | 0.15 | 9.45 |
| | | 1 | 1.50 | 4.00 | 0.15 | 0.90 |
| | 4th Cross Road | 1 | 15.00 | 3.80 | 0.15 | 8.55 |
| | | 1 | 15.00 | 3.80 | 0.15 | 8.55 |
| | | 1 | 15.00 | 4.05 | 0.15 | 9.11 |
| | | 1 | 15.00 | 4.25 | 0.15 | 9.56 |
| | | 1 | 15.00 | 4.60 | 0.15 | 10.35 |
| | | 1 | 10.00 | 4.80 | 0.15 | 7.20 |
| | 5th Cross Road | 1 | 15.00 | 6.10 | 0.15 | 13.73 |
| | | 1 | 15.00 | 6.95 | 0.15 | 15.64 |
| | | 1 | 15.00 | 5.80 | 0.15 | 13.05 |
| | | 1 | 15.00 | 6.05 | 0.15 | 13.61 |
| | 6th Cross Road | 1 | 15.00 | 5.80 | 0.15 | 13.05 |
| | | 1 | 15.00 | 6.15 | 0.15 | 13.84 |
| | | 1 | 12.00 | 6.20 | 0.15 | 11.16 |
| | 7th Cross Road | 1 | 15.00 | 5.95 | 0.15 | 13.39 |
| | | 1 | 15.00 | 6.10 | 0.15 | 13.73 |
| | | 1 | 10.00 | 6.45 | 0.15 | 9.68 |
| | | | | | **Total** | **242.35** |
| | | | | | **Limited to Tendered Qty** | **238.41** |
| | | | | | | **Cum** |

27/11/2020

Assistant Engineer
Ward No.12

27/11/2020

Assistant Executive Engineer
Shettyhalli Sub Divison



ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056

# BRUHATH BANGALORE MAHANAGARA PALIKE
# DASARAHALLI ZONE

**Name of work : Improvements to Concrete drain in Gatepalya Shettyhalli in ward no.12, Shettyhalli Sub Division.**

**First and final Bill**

**Measurement Recorded in :**

| Sl. No | Description of work | No | L | B | D | Qty |
|---|---|---|---|---|---|---|
| 13 | Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to18:383-2016, with Superplastizer at 3 Its conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation 16 including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades,textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc. complete as per specifications | | | | | |
| | 3rd Cross Road | 1 | 15.00 | 4.05 | 0.13 | 7.90 |
| | | 1 | 15.00 | 4.15 | 0.13 | 8.09 |
| | | 1 | 15.00 | 4.25 | 0.13 | 8.29 |
| | | 1 | 15.00 | 4.40 | 0.13 | 8.58 |
| | | 1 | 15.00 | 4.40 | 0.13 | 8.58 |
| | | 1 | 15.00 | 4.20 | 0.13 | 8.19 |
| | | 1 | 1.50 | 4.00 | 0.13 | 0.78 |
| | 4th Cross Road | 1 | 15.00 | 3.80 | 0.13 | 7.41 |
| | | 1 | 15.00 | 3.80 | 0.13 | 7.41 |
| | | 1 | 15.00 | 4.05 | 0.13 | 7.90 |
| | | 1 | 15.00 | 4.25 | 0.13 | 8.29 |
| | | 1 | 15.00 | 4.60 | 0.13 | 8.97 |
| | | 1 | 10.00 | 4.80 | 0.13 | 6.24 |
| | | 1 | 15.00 | 6.10 | 0.13 | 11.90 |
| | 5th Cross Road | 1 | 15.00 | 6.95 | 0.13 | 13.55 |
| | | 1 | 15.00 | 5.80 | 0.13 | 11.31 |
| | | 1 | 15.00 | 6.05 | 0.13 | 11.80 |
| | | 1 | 15.00 | 5.80 | 0.13 | 11.31 |
| | 6th Cross Road | 1 | 15.00 | 6.15 | 0.13 | 11.99 |
| | | 1 | 12.00 | 6.20 | 0.13 | 9.67 |
| | | 1 | 15.00 | 5.95 | 0.13 | 11.60 |
| | 7th Cross Road | 1 | 15.00 | 6.10 | 0.13 | 11.90 |
| | | 1 | 10.00 | 6.45 | 0.13 | 8.39 |
| | | | | | **Total** | **210.03** |
| | | | | | **Limited to Tendered Qty** | **201.60** |
| | | | | | | **Cum** 198.68 |

Assistant Engineer
Ward No.12
BBMP, Bengaluru
06/12/2020

Assistant Executive Engineer
Shettyhalli Sub Divison
BBMP, Bengaluru
6/12

1

ASSISTANT EXECUTIVE ENGINEER
KRIDL, BBMP Dasarahalli Sub-Division
BENGALURU-560 056